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- Click on query # to add to strategy

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| | | |
|--|----------|------------------------|
| #38 Search chlorin e6 trimethyl ester | 12:37:45 | 3 |
| #32 Search purpurinimide | 12:30:37 | 5 |
| #33 Search #32 and #20 | 12:25:13 | 4 |
| #28 Search #26 and #20 | 12:16:54 | 4 |
| #27 Search purpurin-18 | 11:56:52 | 9 |
| #26 Search purpurin 18 | 11:56:37 | 9 |
| #25 Search #24 and #20 | 11:56:22 | 13 |
| #24 Search purpurin | 11:56:06 | 82 |
| #21 Search #20 and #17 | 11:55:30 | 2 |
| #20 Search #19 or #2 | 11:53:29 | 539910 |
| #19 Search preparation | 11:53:16 | 151475 |
| #17 Search methyl pheophorbide a | 11:51:00 | 9 |
| #16 Search pheophorbide a | 11:50:50 | 92 |
| #15 Search pheophorbide | 11:50:41 | 125 |
| #3 Search #1 and #2 | 10:36:12 | 17 |
| #2 Search synthesis | 10:19:27 | 400022 |
| #1 Search pyropheophorbide | 10:19:02 | 65 |

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Jan 24 2005 13:04:36

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Welcome to STN International! Enter x:x

LOGINID:sssptamlf1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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| NEWS | 1 | | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | | "Ask CAS" for self-help around the clock |
| NEWS | 3 | SEP 01 | New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! |
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| NEWS | 6 | DEC 01 | LISA now available on STN |
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| NEWS | 16 | JAN 03 | No connect-hour charges in EPFULL during January and February 2005 |
| NEWS | 17 | JAN 11 | CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property) |
| NEWS EXPRESS | | | JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005 |
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FILE 'HOME' ENTERED AT 11:22:37 ON 25 JAN 2005

=> file registry

COST IN U.S. DOLLARS

SINCE FILE
ENTRY
0.42

TOTAL
SESSION
0.42

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:23:41 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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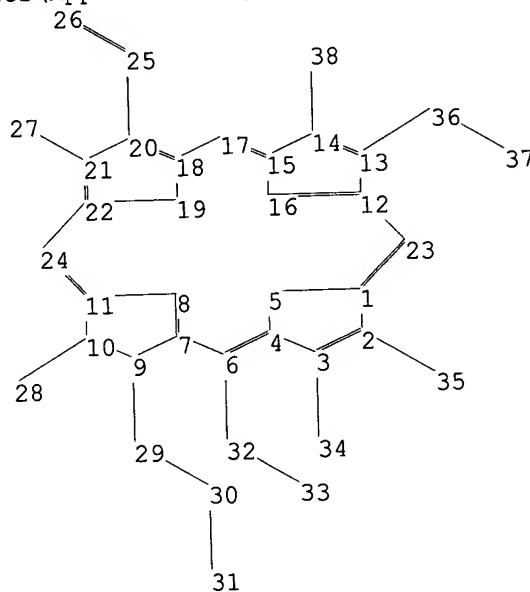
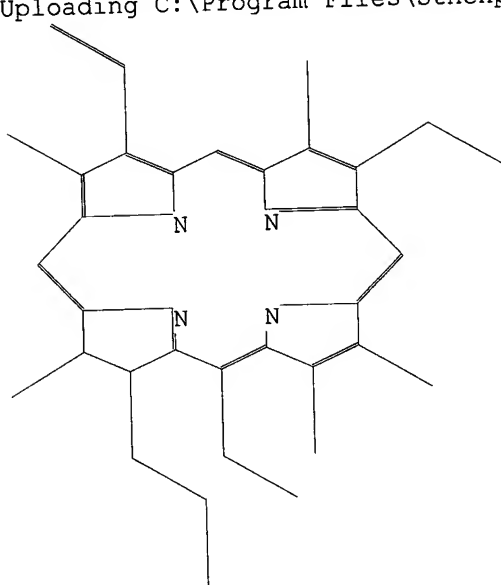
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474.str



chain nodes :
25 26 27 28 29 30 31 32 33 34 35 36 37 38

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24

chain bonds :
2-35 3-34 6-32 9-29 10-28 13-36 14-38 20-25 21-27 25-26 29-30 30-31
32-33 36-37

ring bonds :
 1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
 22-24
 exact/norm bonds :
 1-5 4-5 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22
 exact bonds :
 2-35 3-34 6-32 9-29 10-28 13-36 14-38 20-25 21-27 25-26 29-30 30-31
 32-33 36-37
 normalized bonds :
 1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
 18-20 20-21 21-22 22-24

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:Atom
 29:Atom 30:Atom 31:Atom 32:CLASS 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
 38:Atom

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s l2 sss full
 FULL SEARCH INITIATED 11:24:14 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1197 TO ITERATE

519 ANSWERS

100.0% PROCESSED 1197 ITERATIONS
 SEARCH TIME: 00.00.01

L3 519 SEA SSS FUL L1

| | | |
|----------------------|------------|---------|
| => file registry | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| | 161.33 | 161.75 |
| FULL ESTIMATED COST | | |

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Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> scan 13
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):end
```

| | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.43 | 162.18 |

FILE 'CASREACT' ENTERED AT 11:25:06 ON 25 JAN 2005
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FILE CONTENT:1840 - 23 Jan 2005 VOL 142 ISS 4

```
*****
*
*   CASREACT now has more than 8 million reactions
*
*****
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 12 sss full
FULL SEARCH INITIATED 11:25:16 FILE 'CASREACT'
SCREENING COMPLETE - 342 REACTIONS TO VERIFY FROM 47 DOCUMENTS

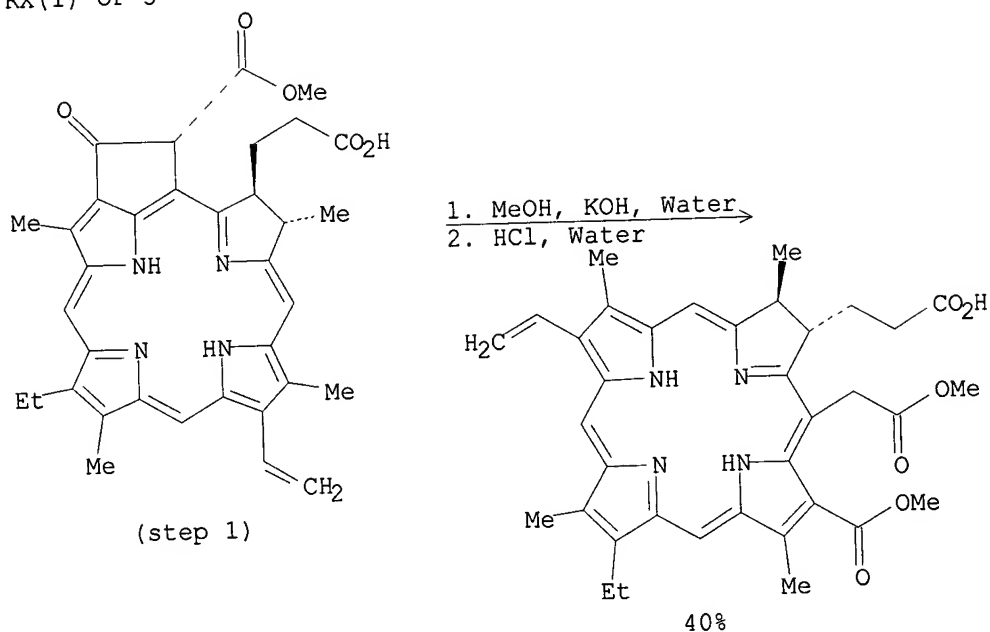
100.0% DONE 342 VERIFIED 84 HIT RXNS 14 DOCS
SEARCH TIME: 00.00.01
```

L4 14 SEA SSS FUL L1 (84 REACTIONS)

```
=> d 14 1-14
```

L4 ANSWER 1 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

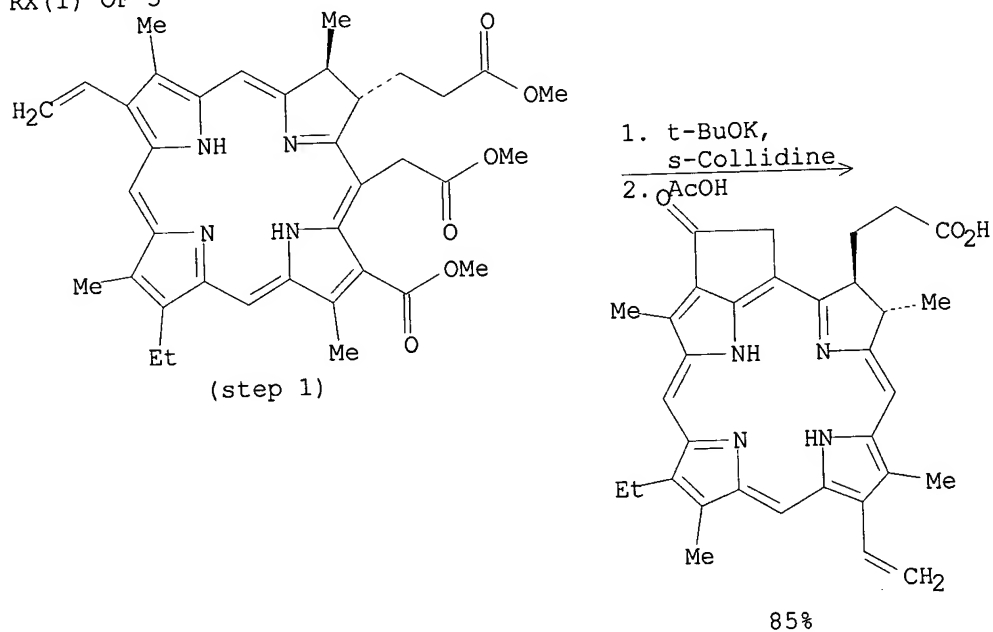
RX(1) OF 5



REF: Zhongguo Yiyao Gongye Zazhi, 34(8), 371-372; 2003

L4 ANSWER 2 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 3

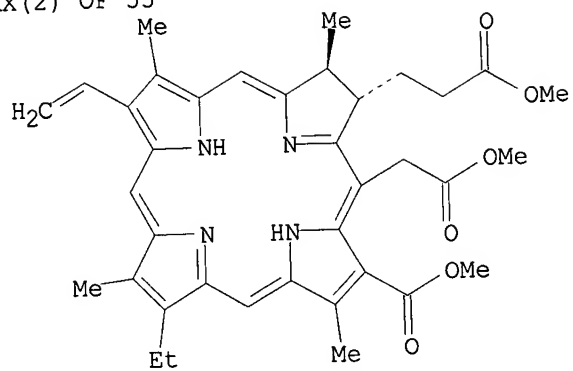


REF: Organic Process Research & Development, 8(2), 287-290; 2004

NOTE: third stage thermal

L4 ANSWER 3 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

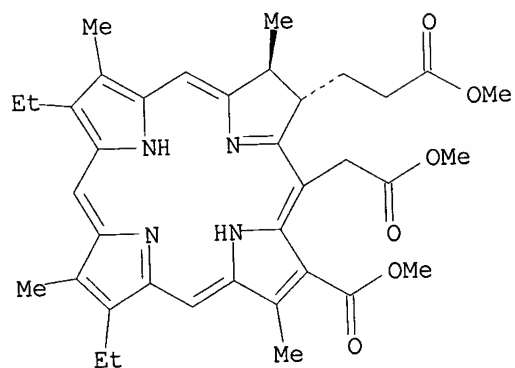
RX(2) OF 55



(step 1)

1. Zn(OAc)₂, CH₂Cl₂, MeOH
2. Pd, Et₃N, H₂, THF
3. F₃CCO₂H

RX(2) OF 55

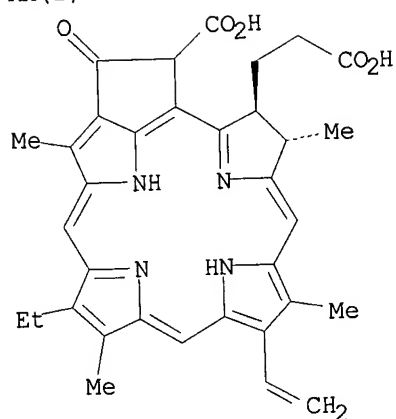


96%

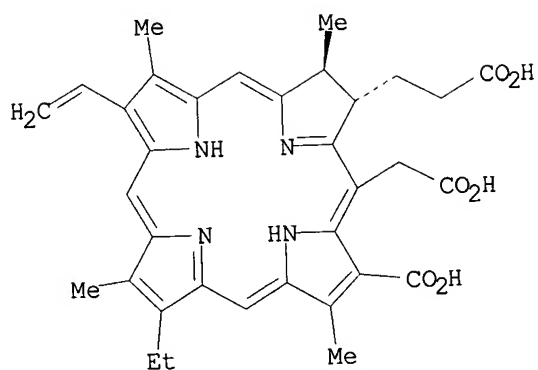
REF: Journal of Medicinal Chemistry, 46(25), 5349-5359; 2003

L4 ANSWER 4 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 10



$\xrightarrow{\text{KOH, MeOH}}$



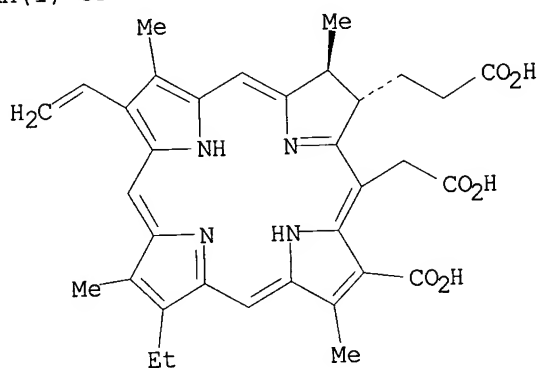
REF: Khimiya Rastitel'nogo Syr'ya, (2), 85-88; 2002

L4 ANSWER 5 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 15 - REACTION DIAGRAM NOT AVAILABLE

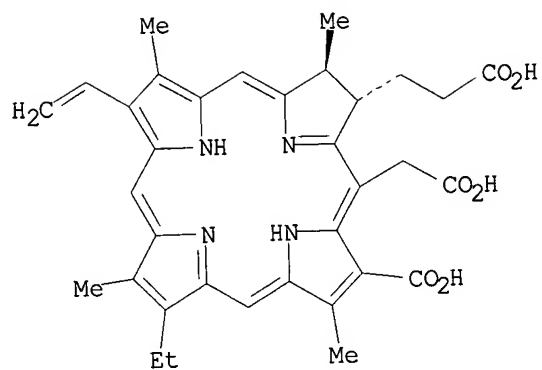
L4 ANSWER 6 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 1



$\xrightarrow{\text{R:75621-03-3, Na}_2\text{HPO}_4, \text{KH}_2\text{PO}_4, \text{R:83382-89-2, EDAP, Water}}$

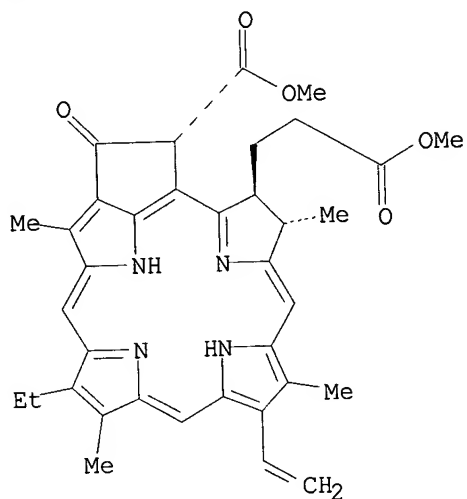
RX(1) OF 1



REF: Breast Cancer Research and Treatment, 72(2), 117-130; 2002
NOTE: biotransformation, iron-satd. human transferrin used, described medium

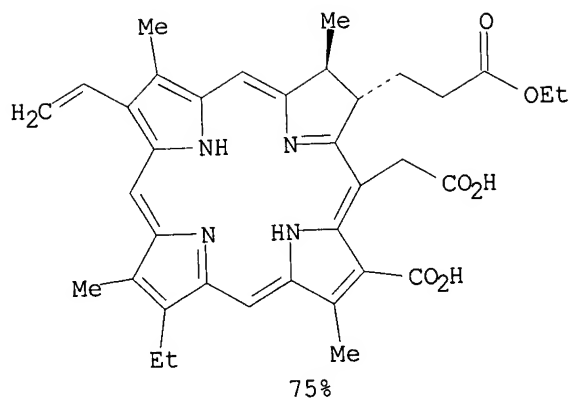
L4 ANSWER 7 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 72



KOH, Me2CO, Water →

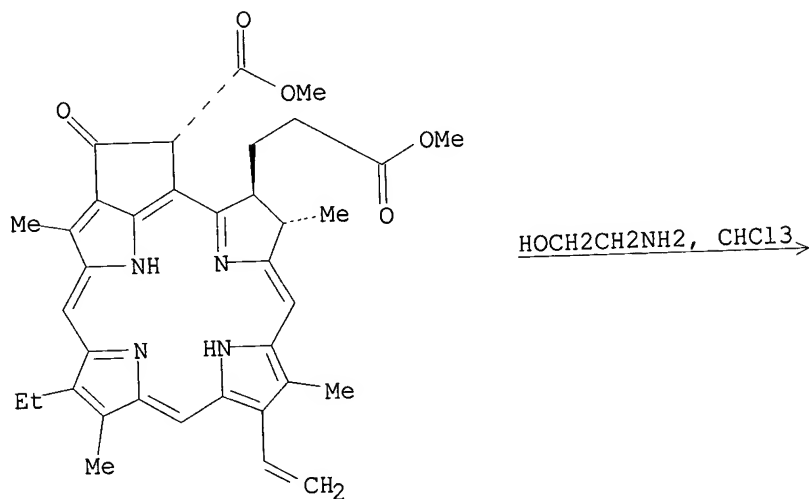
RX(1) OF 72



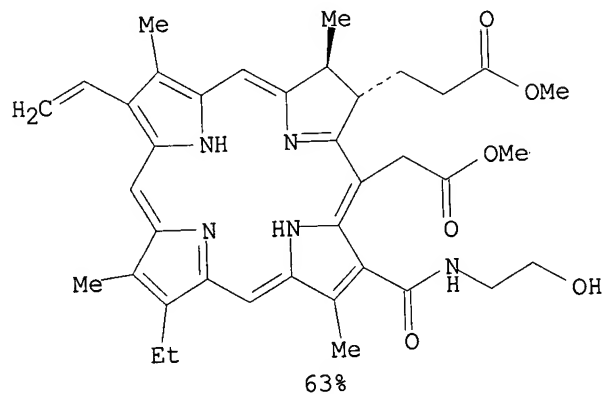
REF: PCT Int. Appl., 2002098882, 12 Dec 2002

L4 ANSWER 8 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 3



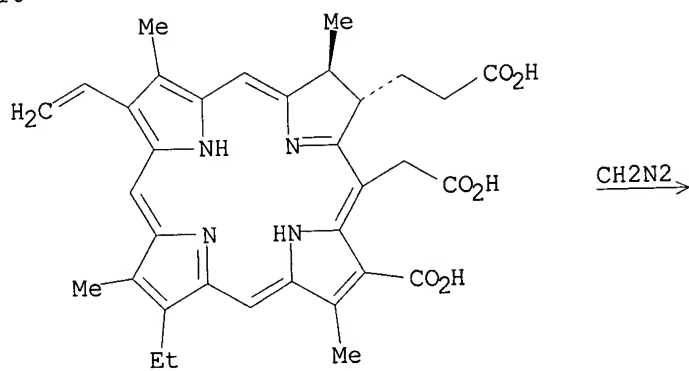
RX(1) OF 3



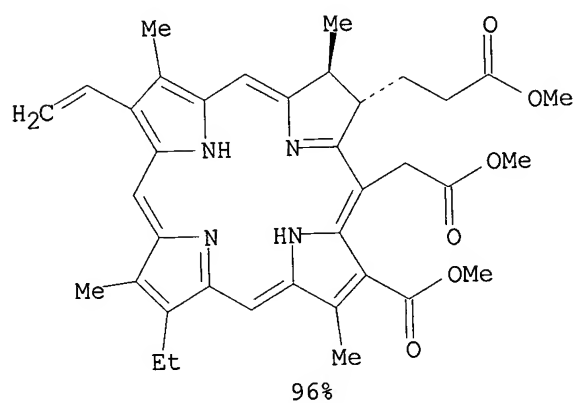
REF: Mendeleev Communications, (2), 77-78; 2002

L4 ANSWER 9 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 16



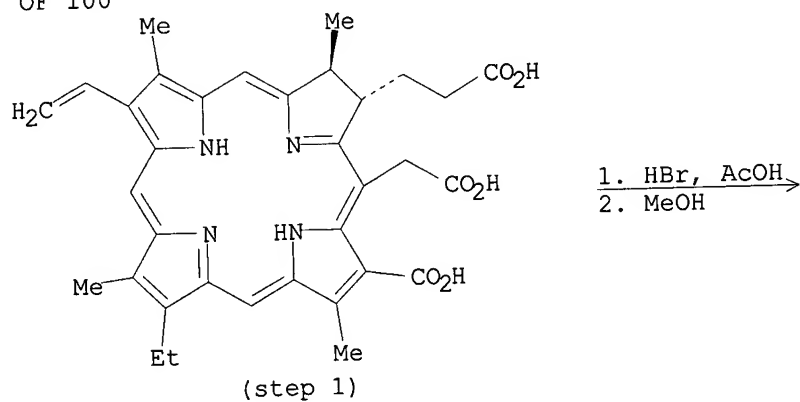
RX(1) OF 16



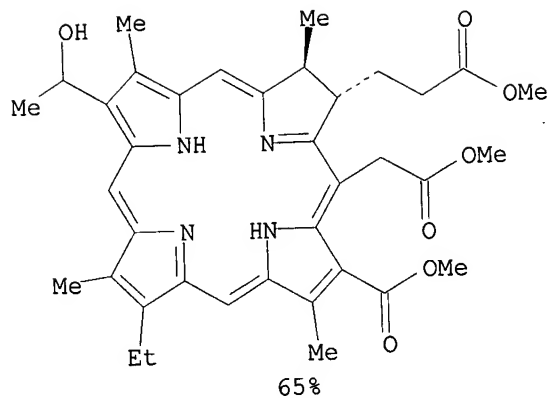
REF: Bioorganic & Medicinal Chemistry, 10(3), 583-591; 2002

L4 ANSWER 10 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(28) OF 100



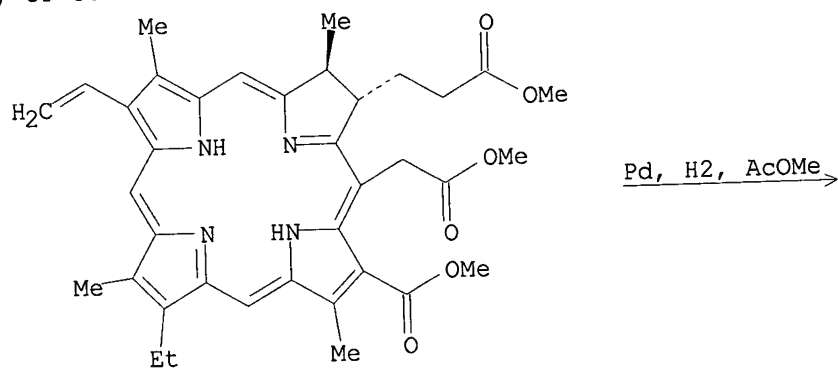
RX(28) OF 100



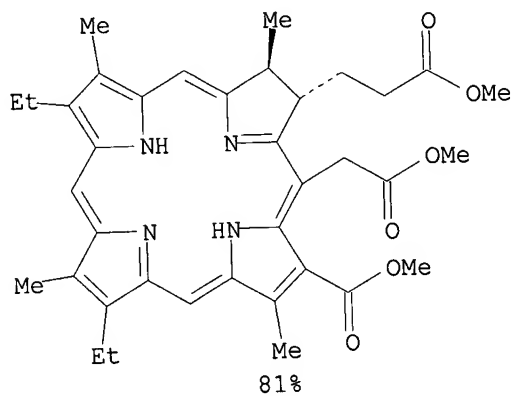
REF: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii), 37(2), 191-201; 2001

L4 ANSWER 11 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(5) OF 38



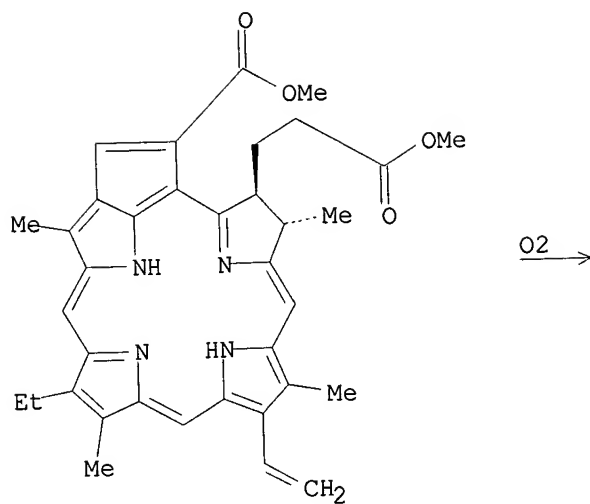
RX(5) OF 38



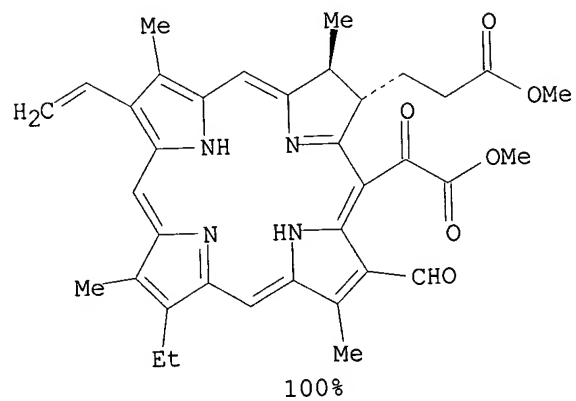
REF: Journal of Organic Chemistry, 63(7), 2314-2320; 1998

L4 ANSWER 12 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 6



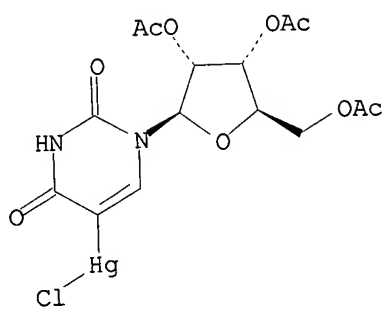
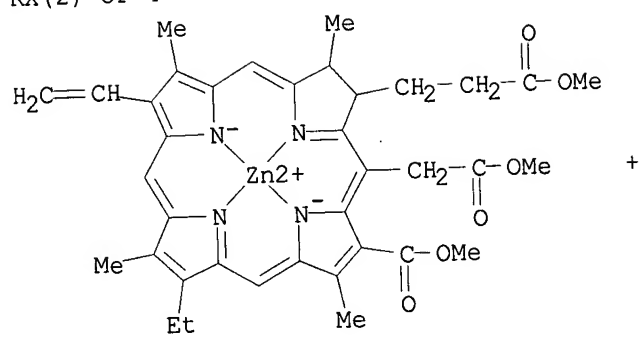
RX(2) OF 6



REF: Tetrahedron Letters, 36(43), 7791-4; 1995
NOTE: PHOTOCHEM.

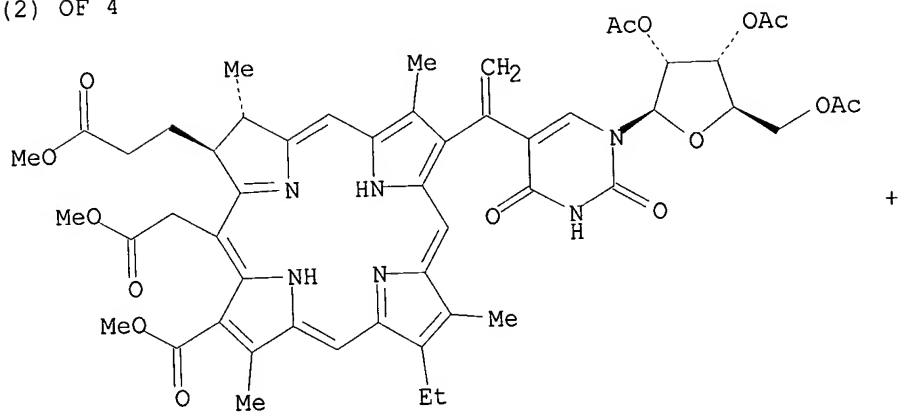
L4 ANSWER 13 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 4

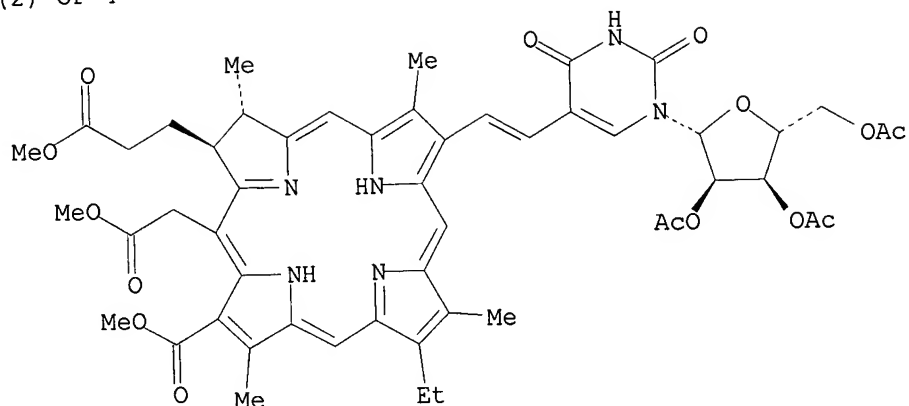


R: 22587-92-4, DMF, MeCN

RX(2) OF 4



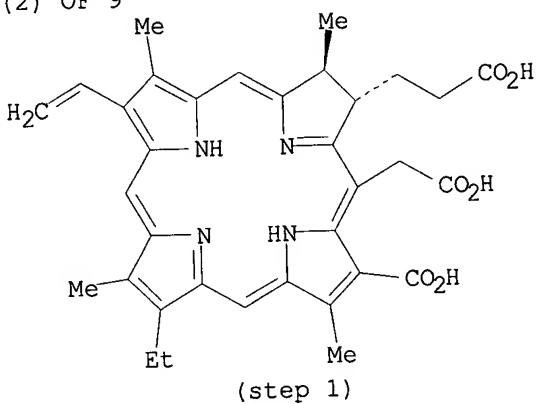
RX(2) OF 4



REF: Tetrahedron Letters, 36(3), 365-8; 1995
NOTE: 40% OVERALL (2.2:1, TRANS:GEM)

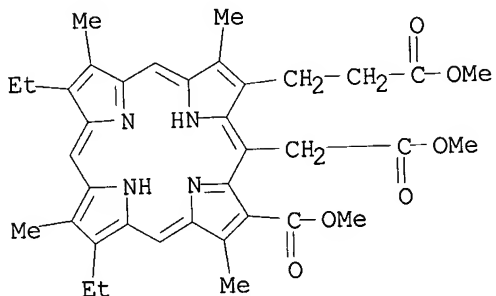
L4 ANSWER 14 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 9



1. CH₂N₂,
R:12125-09-6, HI,
AcOH
2. Et₂O

RX(2) OF 9



REF: Liebigs Annalen der Chemie, (9), 835-40; 1990

=> file registry
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE
ENTRY
142.10

TOTAL
SESSION
304.28

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=>

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LOGINID:sssptamlf1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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|------|----|--------|--|
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| NEWS | 3 | SEP 01 | New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! |
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| NEWS | 17 | JAN 11 | CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property) |

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:48:11 ON 25 JAN 2005

=> file resitry
'RESITRY' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HOME'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

| => file registry | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

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DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

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Crossover limits have been increased. See HELP CROSSOVER for details.

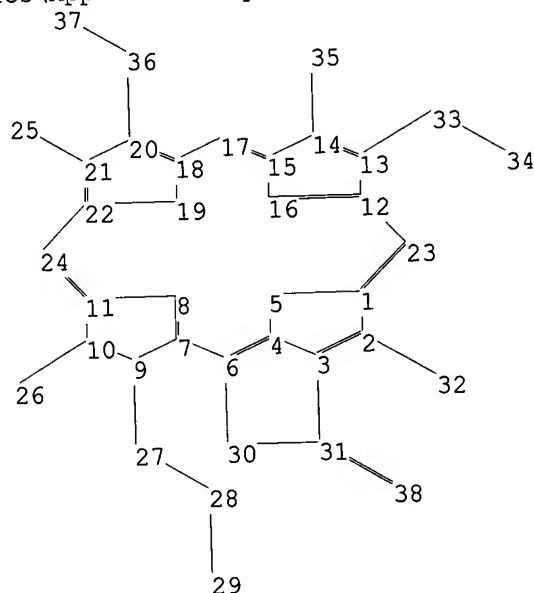
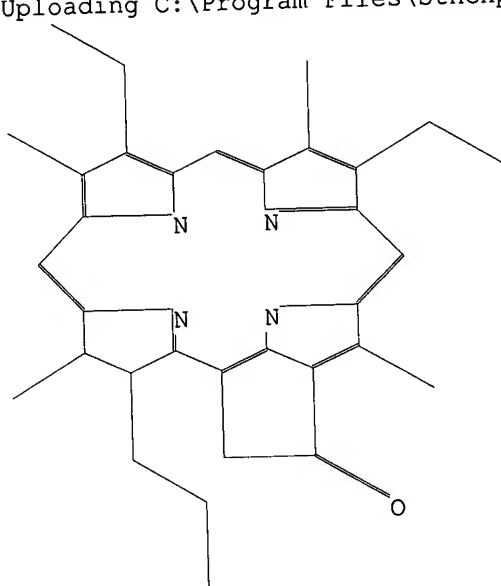
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474b.str



```

chain nodes :
25 26 27 28 29 32 33 34 35 36 37 38
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 30 31
chain bonds :
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 31-38 33-34 36-37
ring bonds :
1-2 1-5 1-23 2-3 3-4 3-31 4-5 4-6 6-7 6-30 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 30-31
exact/norm bonds :
1-5 3-31 4-5 6-30 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22 30-31
31-38
exact bonds :
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 33-34 36-37
normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:Atom
29:Atom 30:CLASS 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:CLASS 37:CLASS
38:CLASS

```

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

```

=> s 12 sss full
FULL SEARCH INITIATED 11:49:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4822 TO ITERATE

```

100.0% PROCESSED 4822 ITERATIONS
SEARCH TIME: 00.00.01

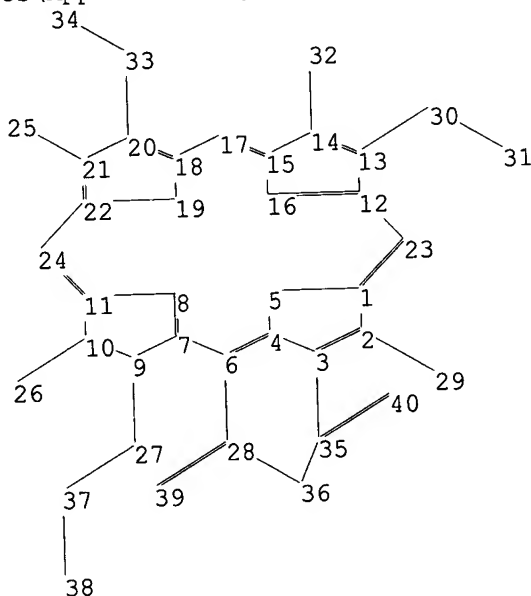
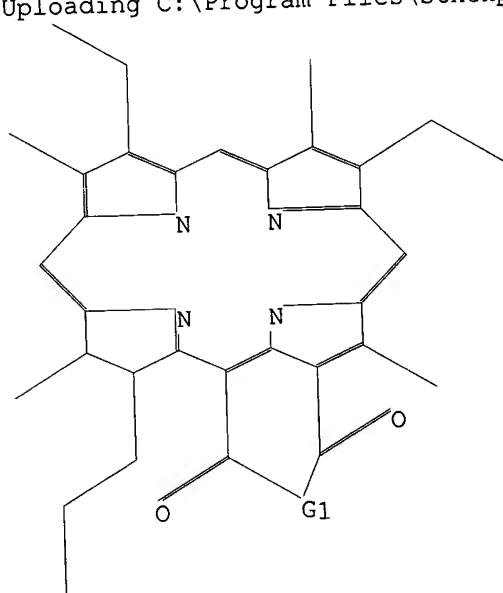
791 ANSWERS

L3 791 SEA SSS FUL L1

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474c.str



chain nodes :
25 26 27 29 30 31 32 33 34 37 38 39 40

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 28 35 36

chain bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 28-39 30-31 33-34 35-40
37-38

ring bonds :
1-2 1-5 1-23 2-3 3-4 3-35 4-5 4-6 6-7 6-28 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 28-36 35-36

exact/norm bonds :
1-5 2-29 3-35 4-5 6-28 7-9 9-10 9-27 10-11 10-26 12-13 13-14 13-30
14-15 14-32 18-19 19-22 20-33 21-25 27-37 28-36 28-39 30-31 33-34 35-36
35-40 37-38

normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:CLASS
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:Atom 36:Atom 37:CLASS
38:CLASS 39:CLASS 40:CLASS

L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> s 15 sss full
FULL SEARCH INITIATED 11:49:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 384 TO ITERATE

100.0% PROCESSED 384 ITERATIONS 103 ANSWERS
SEARCH TIME: 00.00.01

L6 103 SEA SSS FUL L4

| | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 322.66 | 322.87 |

FILE 'REGISTRY' ENTERED AT 11:49:38 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptamlf1623

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

| | | |
|------|---|---|
| NEWS | 1 | Web Page URLs for STN Seminar Schedule - N. America |
| NEWS | 2 | "Ask CAS" for self-help around the clock |
| NEWS | 3 | SEP 01 New pricing for the Save Answers for SciFinder Wizard within |

STN Express with Discover!

| | | | |
|------|----|--------|---|
| NEWS | 4 | OCT 28 | KOREAPAT now available on STN |
| NEWS | 5 | NOV 30 | PHAR reloaded with additional data |
| NEWS | 6 | DEC 01 | LISA now available on STN |
| NEWS | 7 | DEC 09 | 12 databases to be removed from STN on December 31, 2004 |
| NEWS | 8 | DEC 15 | MEDLINE update schedule for December 2004 |
| NEWS | 9 | DEC 17 | ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 10 | DEC 17 | COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 11 | DEC 17 | SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 12 | DEC 17 | CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected |
| NEWS | 13 | DEC 17 | THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB |
| NEWS | 14 | DEC 30 | EPFULL: New patent full text database to be available on STN |
| NEWS | 15 | DEC 30 | CAPLUS - PATENT COVERAGE EXPANDED |
| NEWS | 16 | JAN 03 | No connect-hour charges in EPFULL during January and February 2005 |
| NEWS | 17 | JAN 11 | CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property) |

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:36:00 ON 25 JAN 2005

| | | |
|----------------------|------------|---------|
| => file registry | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| | 0.21 | 0.21 |
| FULL ESTIMATED COST | | |

FILE 'REGISTRY' ENTERED AT 13:36:05 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
 DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

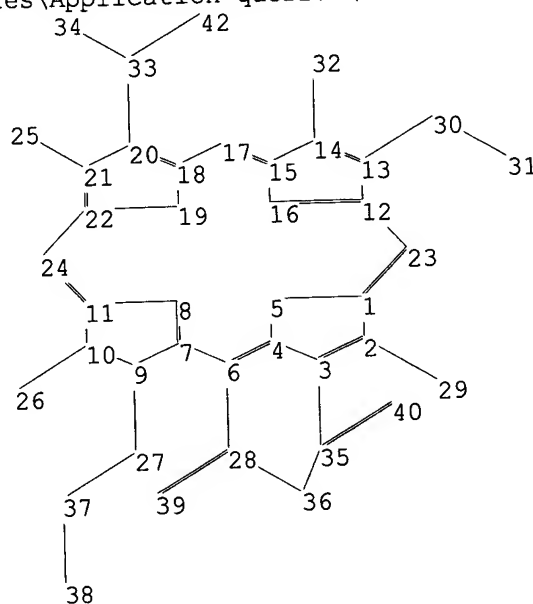
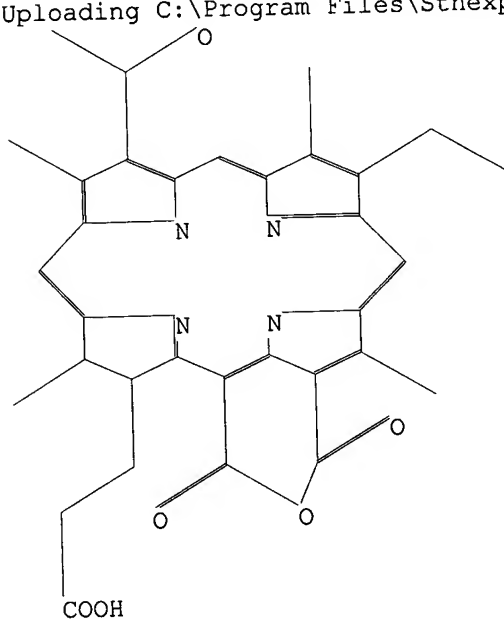
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2076

L1 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474d.str



chain nodes :
25 26 27 29 30 31 32 33 34 37 38 39 40 42

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 28 35 36

chain bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 28-39 30-31 33-34 33-42
35-40 37-38

ring bonds :
1-2 1-5 1-23 2-3 3-4 3-35 4-5 4-6 6-7 6-28 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 28-36 35-36

exact/norm bonds :
1-5 3-35 4-5 6-28 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22 28-36
28-39 33-42 35-36 35-40

exact bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 30-31 33-34 37-38

normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:CLASS
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:Atom 36:Atom 37:CLASS
38:CLASS 39:CLASS 40:CLASS 42:CLASS

L2 STRUCTURE UPLOADED

=> que L2 AND L1

L3 QUE L2 AND L1

=> s l2 sss full
FULL SEARCH INITIATED 13:36:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 541 TO ITERATE

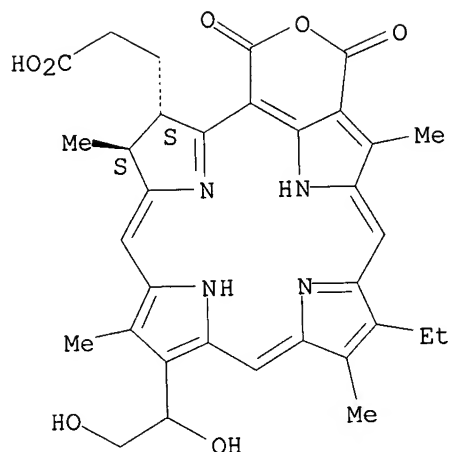
100.0% PROCESSED 541 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L4 3 SEA SSS FUL L2

=> d l4

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 179185-48-9 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-
b]azacyclononadecine-16-propanoic acid, 10-(1,2-dihydroxyethyl)-5-ethyl-
1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-12-(1,12-
dihydroxyethyl)-7-ethyl-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2-20
anhydride
FS STEREOSEARCH
MF C33 H34 N4 O7
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.



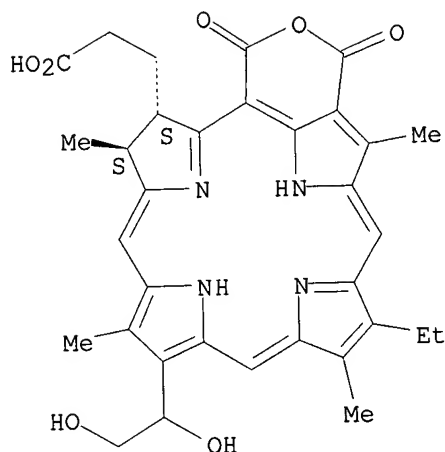
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 14 1-3

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 179185-48-9 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-
b]azacyclononadecine-16-propanoic acid, 10-(1,2-dihydroxyethyl)-5-ethyl-
1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-12-(1,12-
dihydroxyethyl)-7-ethyl-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2-20
anhydride
FS STEREOSEARCH
MF C33 H34 N4 O7
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.

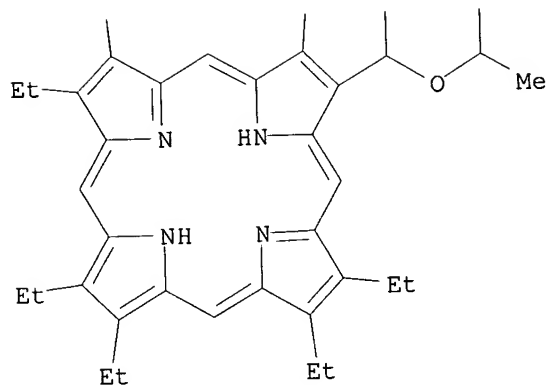
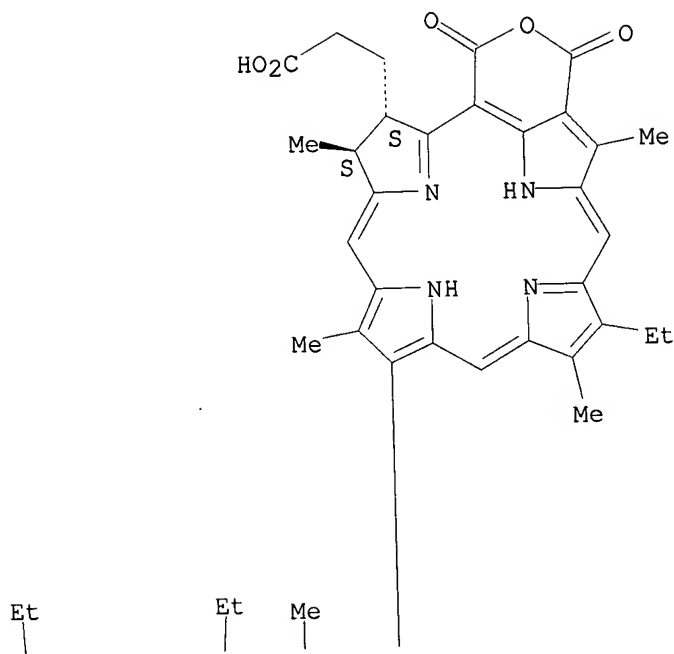


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 166663-14-5 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-b]azacyclononadecine-16-propanoic acid, 5-ethyl-10-[1-[1-(3,7,8,12,13,17,18-heptaethyl-21H,23H-porphin-2-yl)ethoxy]ethoxy]-1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-7-ethyl-12-[1-[1-(3,7,8,12,13,17,18-heptaethyl-21H,23H-porphin-2-yl)ethoxy]ethyl]-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2,20-anhydride
FS STEREOSEARCH
MF C69 H78 N8 O6
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

RN 166663-13-4 REGISTRY

CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-b]azacyclononadecine-16-propanoic acid, 5-ethyl-1,16,18,20-tetrahydro-10-(1-hydroxyethyl)-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

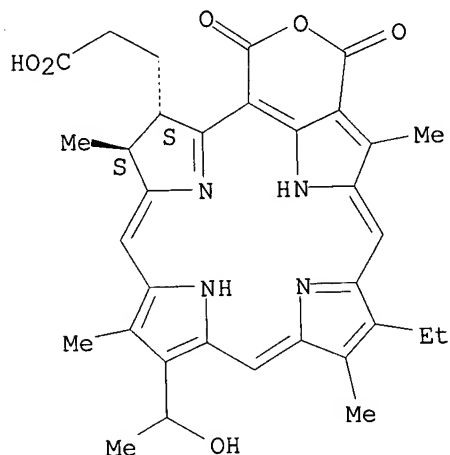
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-7-ethyl-17,18-dihydro-12-(1-hydroxyethyl)-3,8,13,17-tetramethyl-, cyclic 2,20-anhydride

FS STEREOSEARCH

MF C33 H34 N4 O6

SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 169.12 | 169.33 |

FILE 'REGISTRY' ENTERED AT 13:37:15 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L5 1 179185-48-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.51 | 169.84 |

FILE 'CAPLUS' ENTERED AT 13:37:20 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L5

L6 1 L5

=> DIS L6 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:418657 CAPLUS
DN 125:114373
TI Synthesis and properties of new chlorin and bacteriochlorin photosensitizers
AU Mironov, Andrei F.
CS Lomonosov State Academy Fine Chemical Technology, Moscow, 117571, Russia
SO Proceedings of SPIE-The International Society for Optical Engineering (1996), 2625(Photochemistry: Photodynamic Therapy and Other Modalities), 23-32

CODEN: PSISDG; ISSN: 0277-786X
PB SPIE-The International Society for Optical Engineering
DT Journal
LA English

=> FIL STNGUIDE
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 1.55 | 171.39 |

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 13:37:39 ON 25 JAN 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 21, 2005 (20050121/UP).

=> FIL CAPLUS
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.18 | 171.57 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:39:42 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> FIL REGISTRY

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.45 | 172.02 |

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 13:39:53 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 3 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L7 1 166663-13-4/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.51 | 172.53 |

FILE 'CAPLUS' ENTERED AT 13:39:58 ON 25 JAN 2005
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L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:418657 CAPLUS
DN 125:114373
TI Synthesis and properties of new chlorin and bacteriochlorin
photosensitizers
AU Mironov, Andrei F.
CS Lomonosov State Academy Fine Chemical Technology, Moscow, 117571, Russia
SO Proceedings of SPIE-The International Society for Optical Engineering
(1996), 2625(Photochemistry: Photodynamic Therapy and Other Modalities),
23-32
CODEN: PSISDG; ISSN: 0277-786X
PB SPIE-The International Society for Optical Engineering
DT Journal
LA English

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